GSM/GPRS/GPS Tracker GT200 User Manual

TRACGT200UM002

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0. Revision history

Revision	Date	Author	Description of change
2.01	2009-09-11	Ella HUANG	Initial

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1. Introduction

GT200 is a powerful GPS Locator which is designed for kids care. With superior receiving sensitivity, fast TTFF and GSM frequencies 850/1800/1900MHz or 900/1800/1900MHz. Its location can be real time or schedule tracked by backend server or specified terminals. Base on the embedded @Track protocol the GT200 can communicate with the backend server through GPRS/GSM network, transfer reports of Emergency, Geo-fencing, Lower power and scheduled GPS position etc… User can easy to dial the preset phone number by the four quick dial buttons and SOS button. Service provider can easy to setup their tracking platform base on the functional @Track protocol.

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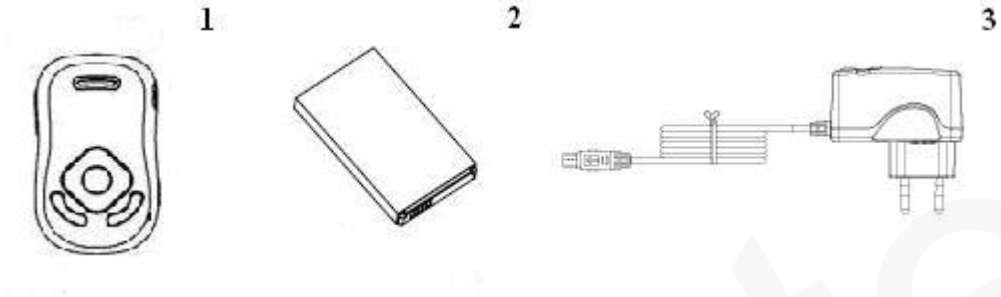
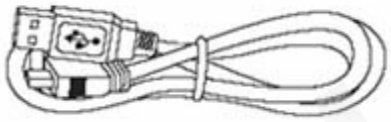
2. Getting Started

2.1. Parts List

- GT200 Locator
- 850mAh Li-ion battery
- AC power adapter



- Mini-USB Data_Cable_M (Please note this data cable is only for backend server developers or administrators. It is not in the delivery list of GT200)



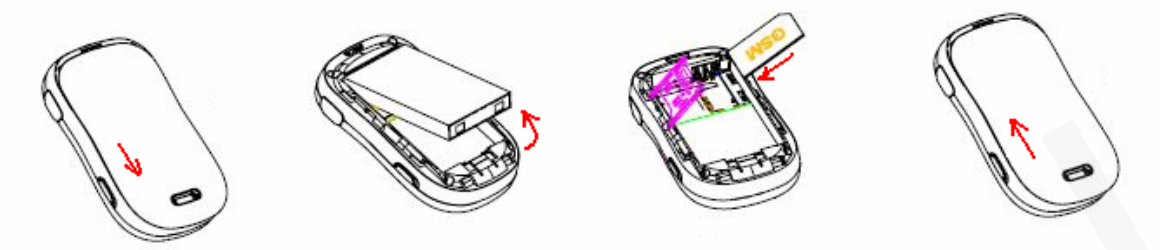
2.2. Battery Charging

- Please connect AC power adapter with GT200 for battery charging.
- Insert the AC power adapter into a working electrical outlet. .
- During charging, the **Battery LED Indicator** is blinking slowly. When the battery is full charged, the **Battery LED Indicator** will be solid.
- You can also charge the battery by USB cable which connects GT200 with the PC.
- Charging process usually takes about 4 hours.

Note: Before your first time using the GT200, please full charge the battery.

2.3. Install SIM Card

- Turn off the GT200; remove the battery cover and battery.
- Move the SIM card slot cover up, pull it up, and insert the SIM card into the SIM card slot according to the direction shown, then close the cover and pull it down to lock;
- Install the battery and close its cover.



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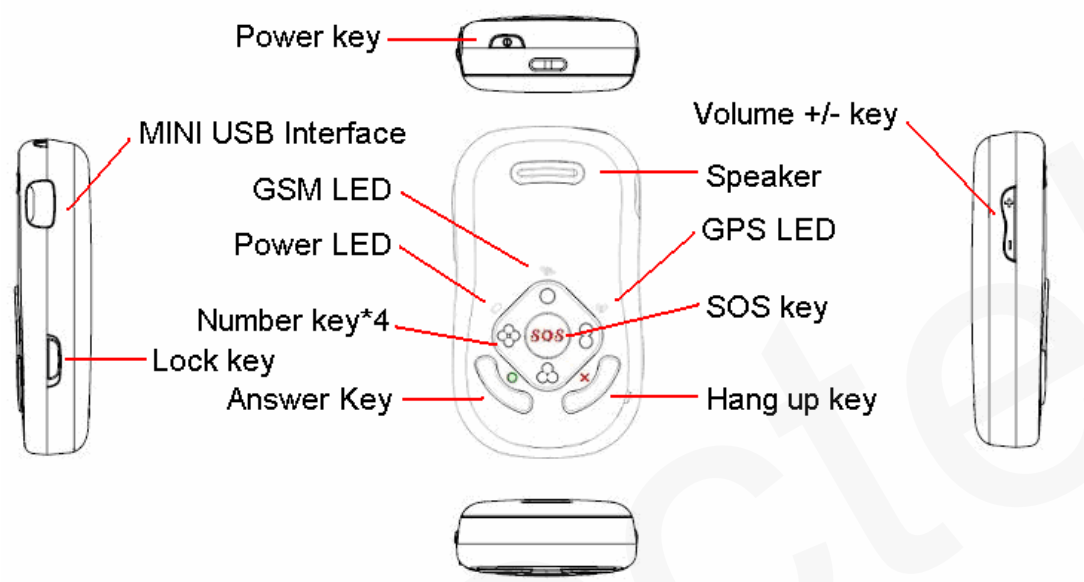
3. Product Overview

3.1. Appearance



3.2. Keypad and MINI USB Interface Description

Keypad Function description	
Power Key	● Hold down this key to turn on / turn off GT200
Volume +/-Key	● When in voice call, press this key to adjust the volume; ● In idle state, keep pressing the Volume – Key for 3 seconds will switch between normal and silent state.
Answer Key	● Press a Number Key which preset a phone number by backend server to make call to the phone number. ● When there is an incoming call, press this key to answer the call.
Hang Up Key	● While in voice call, press this key to end a call. ● When there is an incoming call, press this key to reject the call.
Number Keys(1,2,3,4)	● In idle state, press Number Key X, then press Answer Key to make the phone call to the preset phone number.. ● In idle state, keep pressing the Number Key X which KPN function is enabled for 5 seconds, GPS will open and send its position to backend server.
SOS Key	● Keep press this key for 3 seconds to dial the SOS number. SOS function is enabled even in Keypad Locked Mode.

	• In Fake Power Off Mode and Fake Ghost Mode, keep press this key for 3 seconds to open GPS and send a position to backend server.
Lock Key	• Take this key up, all keys enable. • Take this key down, all keys disable, except SOS Key. • Note: when the key lock function is opened, if there is an incoming call, Answer key and Hang up key can still be used; while in talking state, Volume key can be used to adjust the volume and Hang up key can still be used to end the call.

MINI USB Interface Description	
Mini USB Interface	• Plug in the AC power adapter to this interface for battery charging. • Backend server developer or administrator can use the Data_Cable_M to configure GT200.

3.3. LED Indicator Description

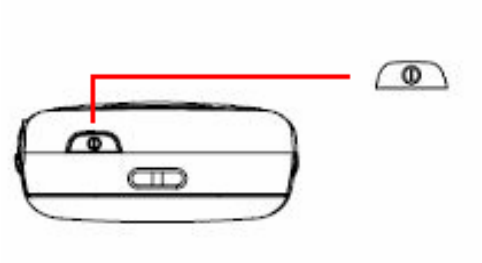
There are three LED Indicators in GT200 to indicator different status of GT200. Details as below:

Light	**event**	**State**
Power LED Indicator	device is in charging	slow flash
	power is low	solid
	charging completed	solid
GSM LED Indicator	network searching	fast flash
	network has been registered	slow flash
	SIM pin locked	solid
GPS LED Indicator	GPS is in fixing	fast flash
	GPS has fixed	solid for 2 seconds

4. Basic Function

4.1. Turning GT200 On or Off

- To turn on GT200, please hold down Power key.
- In state of power-on, hold down Power key to turn off GT200.
- Before turn on GT200, please make sure your SIM card is not PIN locked.



4.2. Number Key Dial Call

- User can preset 4 phone numbers by backend server, each number key corresponding to one phone number.
- When you want to make a phone call, first press Number Key X, and then press Answer Key to call this preset phone number.
- Press Hang Up Key to end the call while in dialing process.
- If the call is received, it will be in talking state.
- Press Hang up Key to end the call while in talking state.

4.3. Make An Emergency Call

- At first, user should preset the SOS call number.
- User can keep press SOS key for 3 seconds with any case to dial the SOS call number for help. At the same time, GT200 will try to get GPS fixing and send the report with position

information to backend server.

- Please note, in Fake Power Off Mode or Fake Ghost Mode, keep press SOS key for 3 seconds, it will only open GPS and send position information to backend server.

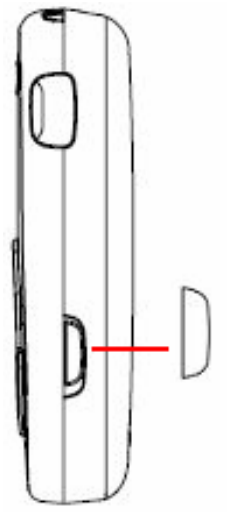
4.4. Volume Adjust and State Switch

- Press volume+/- key to increase or decrease the volume while in talking.
- In idle state, keep pressing the Volume – Key for 3 seconds to switch between normal and silent state.
- In normal state, there is a voice notification for incoming call and new protocol massage; there is a short beep while pressing the key.
- In silent state, there is vibration notification for incoming call and new protocol massage.

4.5. Key-Press Lock

- Take this key up, all keys enable.
- Take this key down, all keys disable, except SOS Key.
- Note: when the keys are locked, if there is an incoming call, Answer key and Hang up key can still be used. While in talking, Volume key can still be used to adjust the volume and Hang up

key can be used to end the call.

- 

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5. Troubleshooting and Safety info

5.1. Troubleshooting

Trouble	Possible Reason	Solution
Poor reception	Using the device in an area with poor reception such as near tall buildings or in a basement where radio waves cannot be transmitted.	Try to avoid
	Related to the distance from the base station built by the network.	You can request that the network service provider provide a service area plan.
Unable to connect with the network	Expired SIM card	Contact your network provider.
	Outside the GSM service area	Consult your network provider on the service area.
	Poor signal.	Please move to a place with a better signal and try again.
Messages can't be reported to the backend server by GPRS.	The SIM card in GT200 doesn't support GPRS.	Try a GPRS supported SIM card.
	APN is wrong. Some APN can not visit the internet directly.	Ask the network operator for the right APN.
	The IP address or port of the backend server is wrong.	Make sure the IP address for the backend server is an identified address in the internet.
GT200 can't get successful GPS fixing.	The GPS signal is weak.	Please move GT200 to a place with open sky.
		It is better to let the top surface face to sky. (The same surface with LED indicator)
		GT200 will stop GPS if it can't get GPS fixing in 2 minutes (except in emergency mode). So please make sure the GPS signal is good enough when doing the first time of GPS fixing.
Unable to power off GT200.	The keypad has been locked.	Put the lock keypad key to unlocked mode.

No response from UART when configure GT200 through UART	GT200 is in power saving mode.	Remove the Data_Cable_M, and plug it in again. After this operation, GT200 will exit from power saving mode for 10 seconds.

5.2. Safety info

- Please do not immerse the device in liquids.
- Please do not store the device in wet, dirty or dusty environments.
- Please do not expose the device to extreme temperatures.
- Please do not place the phone in or near microwave emitting devices.
- Please do not operate or store the device near flammable materials.
- Please do not use the device in restricted areas without permission.
- Avoid dropping, throwing or putting heavy pressure on the device.
- Please do not attempt to, or actually open, or alter the device or any of its accessories from its casing in any way.
- Only use authorized approved accessories with the device.

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